

# Evaluating Logarithmic Functions

Objective: You will be able to evaluate a logarithmic function with the use of the Change of Base Formula



# Change of Base Formula

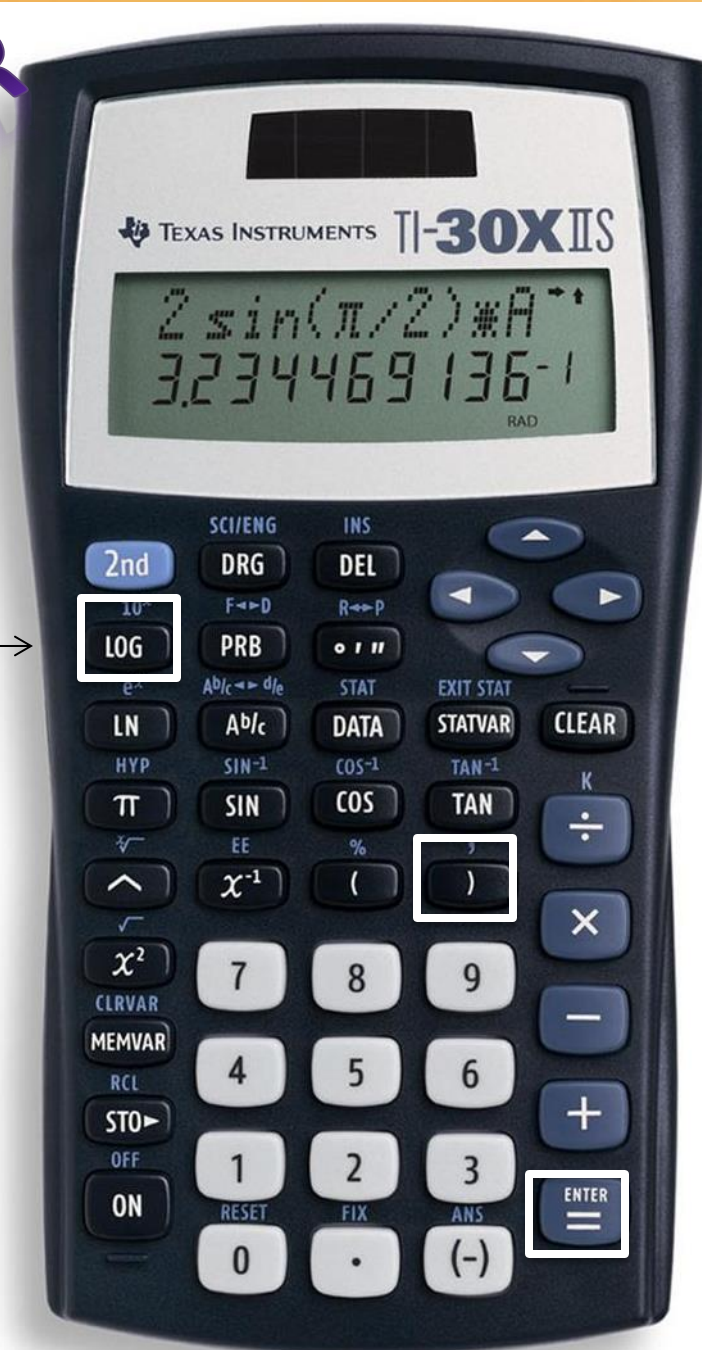
$$\log_b x = \frac{\log_a x}{\log_a b}$$

let  $a = 10$

for the sake of simplicity.



# CALCULATOR



# TIME!

LOG

#'s

)

ENTER  
=



# Ex 1: Rewrite using Change of Base

$$\log_{7.1} b$$



Ex 2: Evaluate using Change  
of Base

$$\log_{20} 135$$



Ex 3: Evaluate using Change  
of Base

$$\log_5 125$$

